NOTES ON THE RIVERS OF THE SACRAMENTO AND SAN JOAQUIN WATERSHEDS DURING NOVEMBER, 1911.

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Sacramento watershed.—The average stages of all streams in this watershed showed little departure from those of the preceding month. There was a marked deficiency in rainfall, not only in the Great Valley, but in the higher regions of the Sierras as well.

At Red Bluff the river was 1.2 feet below the normal of the month, and the average stage at this station was the lowest of any November during the past 12 years, except in 1905 and 1907. From Tehama to Walnut Grove the Sacramento was the lowest recorded during any November, and the same is true of the Feather at Oroville, and the American at Fair Oaks and Folsom.

A new special river station has been established on the Bear River at the Pacific Gas & Electric Co.'s plant near Colfax. Reports will be furnished the Sacramento office during high-water periods.

San Joaquin watershed.—In the upper reaches of the San Joaquin and in the Cosumnes and Mokelumne Rivers there was little departure from the extreme low stages which have prevailed in these watersheds since about September 15. In all other streams in the drainage basin of the San Joaquin there was a slight increase in the run-off over that of the preceding month.

Rather more rain fell in this watershed than in that of the Sacramento, but the precipitation was generally deficient, and in no case was the normal stage for the month approached.